Center Independent Research & Development: GSFC IRAD

Digital Radio Prototype

Completed Technology Project (2012 - 2013)

Project Introduction

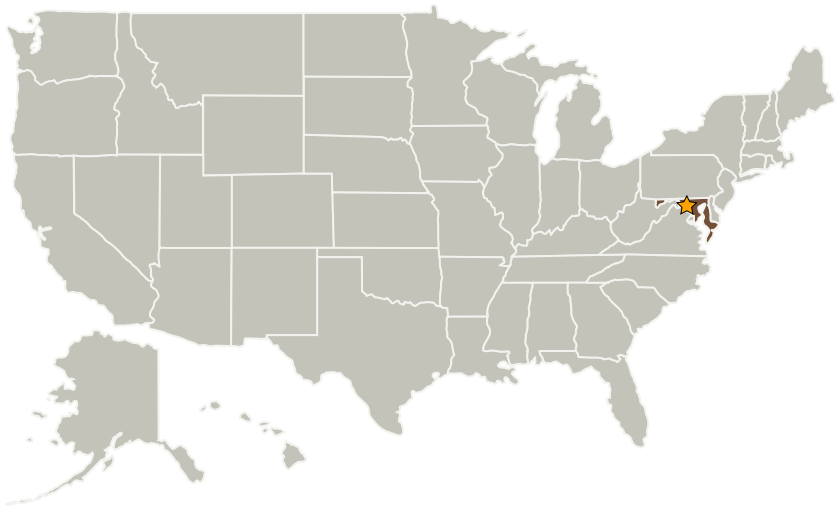
The Digital Radio Prototype project is to build a prototype digital radio with modes that are applicable for planetary environments.

The Digital Radio Prototype project evaluates and tests digital receiver and spectral analyiss tools for various planetary environment.

Anticipated Benefits

Improved detection of local plasma waves and distant radio signals from planetary sources.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations
Maryland

Digital Radio Prototype

Table of Contents

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Independent Research & Development: GSFC IRAD

Digital Radio Prototype

Completed Technology Project (2012 - 2013)

Project Management

Program Manager:

Peter M Hughes

Project Manager:

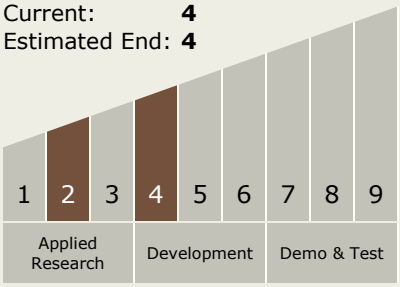
Brook Lakew

Principal Investigator:

William M Farrell

Technology Maturity (TRL)

Start: **2**
Current: **4**
Estimated End: **4**



Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.3 In-Situ Instruments and Sensors
    - TX08.3.1 Field and Particle Detectors